

February 20, 2008

James Baldwin Illinois Environmental Protection Agency Voluntary Site Remediation Program 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

Subject: Response to November 19, 2007 and January 10, 2008 Correspondence

LPC# 0311715101 – Cook County

Village of Lyons / Quarry Reclamation District TIF #4

Lyons, Illinois

BB&J Project No. 0259004

Dear Mr. Baldwin:

Bradburne, Briller & Johnson, LLC (BB&J), on behalf of the Village of Lyons c/o Robert Bush, is providing this response to your request for information submitted via Illinois Environmental Protection Agency (IEPA), Site Remediation Program (SRP) letters dated November 19, 2007 (November 19, 2007 Letter) and January 10, 2008 (January 10, 2008 Letter) to Mr. Robert Bush of Ancel Glink regarding the Village of Lyons property located in Cook County, Lyons, Illinois (Subject Property).

Please find BB&J's response to your comments below, matched numerically to your comments:

November 19, 2007 Letter

1. As indicated in BB&J's *Work Plan for Additional Soil and Ground-water Investigation*, dated October 22, 2007 (Work Plan), BB&J proposed to explore the Subject Property using soil probes, soil borings, and monitoring wells to address potential constituents of concern (COCs). BB&J completed this investigation in December 2007 and will submit a report with findings to the IEPA SRP shortly. During the December 2007 investigation, twenty-three soil probes were advanced to 12 feet below ground surface (bgs) to assess the upper-most fill material at the Subject Property. These soil probes were primarily advanced throughout the central portion of the Subject Property to assess ingestion and inhalation exposure pathways, and were not intended to reach bedrock.

To investigate the soil horizon from the ground surface to the top of bedrock, BB&J advanced soil borings and monitoring wells to the overburden soil/fill material – bedrock interface. To date, no monitoring wells have been installed into the bedrock; however, an Addendum to the Work Plan has been submitted to the IEPA SRP which includes a scope of work to investigate the bedrock beneath the Subject Property.

2. Based upon previous investigations, including the December 2007 investigation, there is one water-bearing unit in the overburden soil/fill material outside of the horizontal extent of the former quarry; this unit has been encountered at depths ranging from approximately 10 to 20 feet

bgs. The monitoring well completed in the soil/fill material of the former quarry (SIR MW-4 located in the central portion of the Subject Property) indicated that the depth to ground-water was approximately 50 to 70 feet bgs. The soil boring for this monitoring well was advanced to approximately 96 feet bgs, where drilling refusal/top of rock was encountered. As described in the previously submitted Addendum to the Work Plan, monitoring wells will be completed into bedrock at the Subject Property.

- 3. As indicated in the Work Plan, BB&J collected soil samples from three different depths in soil borings located at the Subject Property. Additionally, as will be addressed in the forthcoming Addendum to the Work Plan, BB&J will collect soil samples from various depths from each soil boring.
- 4. To date, BB&J has used direct-push technology (i.e., Geoprobe®) in addition to hollow stem augers (HSA) to investigate the subsurface of the Subject Property. As was addressed in the previously submitted Addendum to the Work Plan, both of these types of drilling methods will be used, in addition to using rotary drilling (if necessary) and rock coring techniques.

January 10, 2008 Letter

- 1. Per the open leaking underground storage tank (LUST) incident #931154 at the historic asphalt plant, BB&J requests to proceed with the LUST incident under the SRP. The signed Election for Proceed Under the SRP form is attached as Appendix A.
- 2. Soil samples associated with LUST incident #931154 were collected by Alpha Environmental, Inc. (AE), as described in *Environmental Remediation Report & Monitoring Plan at Palumbo Bros. Inc. Lyons Asphalt Plant*, prepared by AE, for Palumbo Bros., Inc., dated December 7, 1993 (AE Report). In Section 2.2 of BB&J's Comprehensive Site Investigation Report (CSIR), as well as in Sections 1.0, 2.1.1, and 4.1, BB&J describes a release of diesel fuel from an underground pipe that connected to a diesel aboveground storage tank (AST).

According to the AE Report, approximately 50 cubic yards of diesel-impacted soil surrounding the underground pipe, diesel AST, and footings of the historic asphalt plant were excavated from an area approximately 16 feet wide by 20 feet long and disposed off site. Four soil samples collected from the sidewalls of the excavation (identified as W-1N, W-1S, W-1E, and W-1W) and one composite soil sample collected from the floor of the excavation (identified as F-1) were submitted for laboratory analysis of the following:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) by United States Environmental Protection Agency (USEPA) Method 8020 (modified); and,
- Polynuclear aromatic hydrocarbons (PAHs) by USEPA Method 8310.

Based upon BB&J's review of the analytical laboratory reports and associated figure of AE sample locations included within the AE Report, concentrations of naphthalene exceeded remediation objectives (ROs) for the construction worker inhalation exposure pathway. Furthermore, based upon a review of concentrations of xylene compared to the most recent IEPA TACO ROs, xylene exceeds the construction worker inhalation exposure pathway. A figure of AE's sampling locations and a summary table of the analytical results is attached as Appendix B. This exceedance of naphthalene was not intended to be correlated to or associated with soil boring SB-7 completed during BB&J's Phase II ESA: Commercial Development, dated

June 13, 2007. The reference to naphthalene by BB&J was only intended to communicate the findings of AE's investigation because as of BB&J's CSIR, no subsurface investigation had been completed by BB&J for this area.

Because the figures in the AE Report do not include a scale and this area of the Subject Property has since been vacated, the excavation area and the sampling locations are not precisely known. However, based upon aerial photographs described in BB&J's CSIR and a review of several general figures in the AE Report, the location of the historical asphalt plant and associated dieselimpacted soil is limited to the northwest and north-central portions of the Subject Property. Furthermore, based on these aerial photographs and the AE Report, it does not appear that the concentrations of naphthalene identified in soil boring SB-7 is related to the work addressed in the AE Report regarding the historical asphalt plant.

During the December 2007 investigation, BB&J completed four soil probes from within the approximate boundaries of the historic asphalt plant. Sampling locations and analytical results will be included within a report under separate cover.

- 3. As previously described in the Work Plan, several monitoring wells were installed during the December 2007 investigation. Additionally, as discussed in the previously submitted Addendum to the Work Plan, additional monitoring wells, including bedrock wells, are proposed at the Subject Property to assist in characterizing the ground-water at the Subject Property.
- 4. BB&J will reevaluate the ground-water conditions at the Subject Property following the installation and sampling of additional monitoring wells per the previously submitted Addendum to the Work Plan.
- 5. Following installation of the additional monitoring wells at the Subject Property, BB&J will issue a revised potentiometric map of the ground-water flow and gradient of the water bearing unit in both the overburden fill material and the bedrock.
- 6. Following installation of the additional monitoring wells at the Subject Property, BB&J will prepare revised hydrogeological information with regard to whether or not the possibility of offsite migration exists.
- 7. A Remediation Objectives Report (ROR) will be submitted under separate cover to address the potential need for engineered barriers, vapor barrier membranes, and/or passive vent systems at the Subject Property.
- 8. BB&J understands the request for additional soil and ground-water sampling within the area of the historical asphalt plant. Details of this additional sampling were provided in the f previously submitted Addendum to the Work Plan.

BB&J, on behalf of the Village of Lyons, submits this information to the IEPA SRP in order to clarify outstanding issues pertaining to BB&J's CSIR and Work Plan. As previously mentioned, anticipated reports and work plans to be submitted to the IEPA SRP include, but are not limited to:

- Reports of Additional Investigations;
- Remediation Action Plan (RAP); and,
- Remediation Action Completion Report (RACR).

BB&J would be happy to meet with the IEPA SRP to discuss any of the above information at your convenience. If you have any questions or concerns about this response, please feel free to contact Messrs. Kevin McCartney or Andrew Bajorat of BB&J at (312) 726-8556.

Sincerely,

BRADBURNE, BRILLER & JOHNSON, LLC

Kevin McCartney Project Manager

Kain Malary

Andrew Bajorat, CHMM Senior Scientist

ander Bjal

J. Tim Bradburne, P.G.

Principal

Cc: Robert Bush, Ancel Glink

Enclosures: Appendix A – IEPA LUST Program Election to Proceed under the SRP

Appendix B – AE Report Figures and Tables

APPENDIX A

IEPA LUST PROGRAM – ELECTION TO PROCEED UNDER THE SRP

The IEnois EPA is surnorized to require this information under Title XVII of the Emironmental Protection Act (415 tLCS 5/58.1(e)(2)). Failure to disclose this Information may prevent this form from being processed and could also prevent acceptance into the Sits Remediation Program. This form has been approved by the Forma Managazani Center.

Illinois Environmental Protection Agency Leaking Underground Storage Tank Program

Election to Proceed under the Site Remediation Program (This form applies only to UST owners or operators electing to conduct remediation under SRP.

SITE IDENTIFICATION IEMA Incident # (6- or 8-digit): _____ IEPA LPC# (10-digit): ___ Site Address (Not a P.O. Box): _____ County: ____ CERTIFICATION

B.

In accordance with Section 58.1(b) of the Environmental Protection Act (Act) (415 ILCS 5/58.1(b)), the following statement of election is made:

As the Owner and/or Operator of this tank system, I am electing to proceed with remediation in accordance with Title XVII of the Act (415 ILCS 5/58 et seq.) and 35 Illinois Administrative Code (35 III. Adm. Cade) 740. I am aware of the following:

- Completion of the Site Remediation Program (SRP) Application and Service Agreement Form (DRM-1) is required to enroll into the Program.
- I am subject to an advance partial payment for requested services in the amount of \$500. Alternatively, I may request that the Illinois Environmental Protection Agency (Illinois EPA) estimate the total costs to provide the requested services and assess an advance partial payment riot to exceed \$5,000 or one-half of the total anticipated costs of the Illinois EPA, whichever is less. If the second option is selected, the Assessment of Illinois EPA, whichever is less. If the second option is disastion (DRM-3) must be Advance Partial Payment for Anticipated Services Application (DRM-3) must be completed and attached to the application and service agreement.
- The advance partial payment is not refundable.
- I am subject to payments for costs incurred by the Illinois EPA for the performance of services under the SRP once the advance partial payment has been depleted. In. addition, a No Further Remediation (NFR) letter assessment fee is required based on ... Illinois EPA-incurred costs up to a maximum of \$2,500.
- I am no longer eligible to seek reimbursement from the Underground Storage Tank Fund for costs incurred after the date the SRP Application and Service Agreement Form (DRM-1) is signed by the Remediation Applicant and accepted by the Illinois EPA.
- I am subject to the report requirements of 35 III. Adm. Code 740, which include, but are not limited to, submitting a Site Investigation Report, Remediation Objectives Report, Remedial Action Plan, and Remedial Action Completion Report.
- All plans and reports submitted for review and evaluation must be prepared by, or under the supervision of, an Illinois Licensed Professional Engineer, except that, for a site investigation report only, an Illinois Licensed Professional Geologist may make the certification. Any plan or report submitted to the Illinois EPA for review and evaluation must be accompanied by Form DRM-2.

- An NFR Letter issued pursuant to Section 57.10 of the Act (Leaking UST Program) signifies that all statutory and regulatory corrective action requirements applicable to the occurrence have been complied with; whereas, an NFR Letter issued pursuant to Section 58.10 of the Act (SRP) signifies a release from further responsibilities under the Action performing the approved remedial action and shall be considered prime facie evidence that the site does not constitute a threat to human health and the environment. The NFR Letter issued pursuant to Section 58.10 of the Act may not address all recognized environmental conditions or contaminants of concern subject to LUST regulations. Therefore, the content of the NFR Letter issued pursuant to Section 58.10 of the Act may reflect that fact.
- I am responsible for any environmental conditions or contaminants of concern associated with a Leaking UST release not addressed in the NFR Letter issued pursuant to Section 58.10 of the Act, including, but not limited to, off-site soil and/or groundwater contamination.
- If I am also the Remediation Applicant under the SRP, I further agree that any NFR Letter issued pursuant to Section 58,10 of the Act is voidable by the Illinois EPA if I fall to address such conditions or contaminants as required by law.

C. SIGNATURES

UST Owner	031 Obstator (it different than 001 Owlor)
Company: Village of Lyons	Company:
Contact: Robert F. Bush- atty	Contact:
Address: 140 S. Dearborn # 600	Address:
City: Chicago, IL	City:
State: III.	State:
ZIP: 60603	
Phone: 312-762-7606	Phone:
Signature: Port & 3	Signature:
Date: Feb. 19 2006	Date:

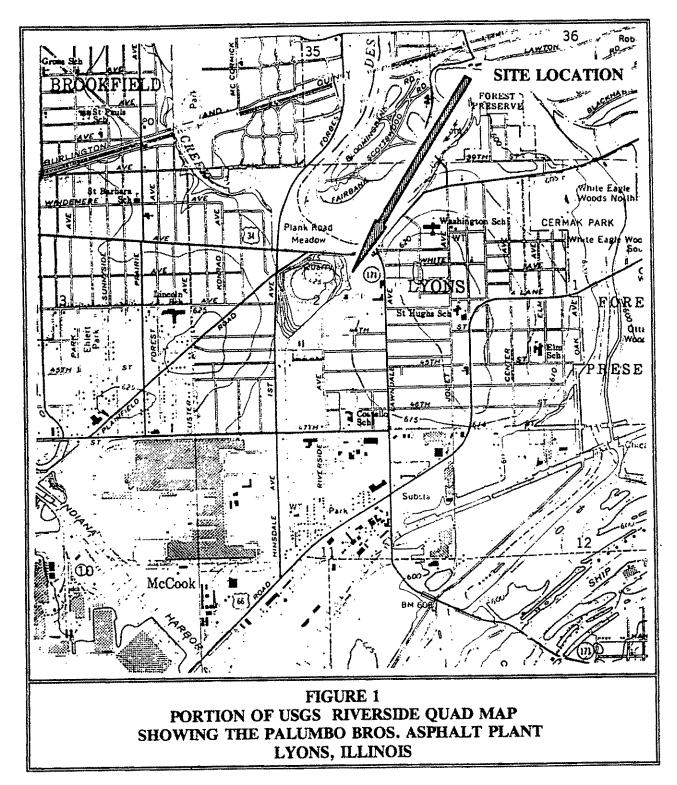
Submit this form to:

Illinois Environmental Protection Agency Bureau of Land — #24 Leaking Underground Storage Tank Section 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276

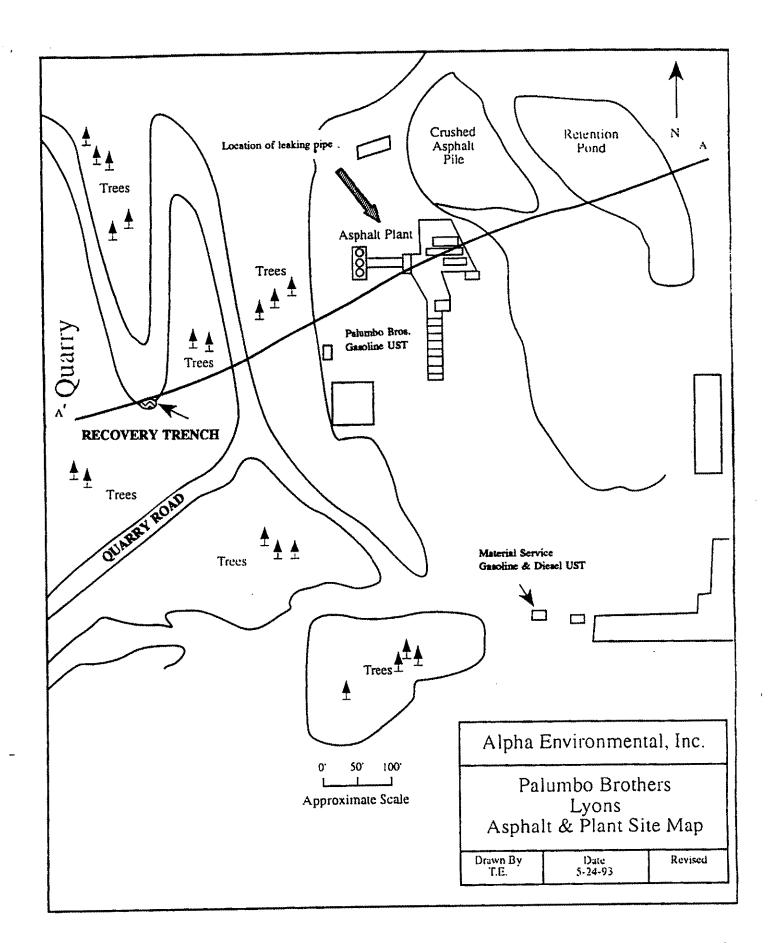
APPENDIX B

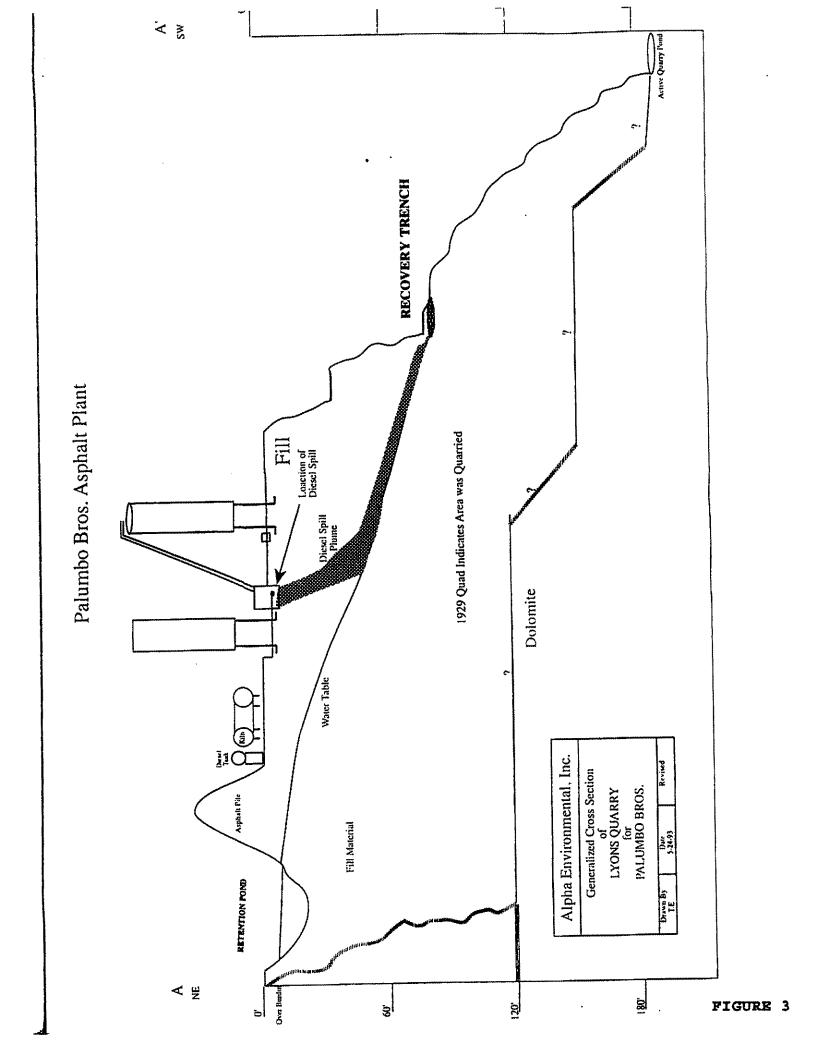
AE REPORT FIGURES AND TABLES

FIGURE 1
Portion of the USGS Quadrangle Map



Palumbo Bros. - Lyons Asphait Plant Environmental Report





F-1	W-IN	W-1S	W-IE	W-1W	Acceptable		
СОМР	GRAB	GRAB	GRAB	GRAB	Detection Limit		
BTEX							
BDL	.089	₿DL.	BDL	BDL	.00009		
1.6	.095	BDL	1.7	.071	.0001		
5.5	0.67	0.80	12.0	0.21	.00005		
12	1.3	1.1	39.0	0.70	0.002		
19	2.2	1.9	53.0	0.98			
PNAs							
BDL	BDL	1.6	4.1	BDL	0.66		
BDL	BDL	BDL	BDL	BDL	0.66		
BDL	BDL	BDL	BDL	BDL	0.66		
0.78	.022	0.32	0.41	0.92	.0087		
0.51	.023	.079	BDL	1.2	.015		
0.56	BDL	BDL	BDL	1.1	.012		
BDL	BDL	BDL	BDL	0.35	0.66		
0.38	.027	BDL	BDL	0.65	.011		
0.73	BDL	BDL	0.62	1.2	.1		
0.11	.021	BDL	0.13	BDL	.02		
5.0	BDL	14	32	2.6	.014		
BDL	BDL	2.4	7.3	BDL	.014		
0.78	BDL	BDL	BDL	1.1	.0029		
1.9	BDL	BDL	13	BDL	.0006		
1.5	BDL	5.0	16	BDL	0.66		
1.6	BDL	1.2	2.3	1.3	0.18		
				0.35	NA		
	BDL 1.6 5.5 12 19 BDL BDL BDL 0.78 0.51 0.56 BDL 0.38 0.73 0.11 5.0 BDL 0.78	COMP GRAB BDL .089 1.6 .095 5.5 0.67 12 1.3 19 2.2 BDL BDL BDL BDL BDL BDL 0.78 .022 0.51 .023 0.56 BDL BDL BDL 0.38 .027 0.73 BDL 0.11 .021 5.0 BDL BDL BDL	COMP GRAB GRAB BDL .089 BDL 1.6 .095 BDL 5.5 0.67 0.80 12 1.3 1.1 19 2.2 1.9 BDL BDL BDL BDL BDL	COMP GRAB GRAB GRAB BDL .089 BDL BDL 1.6 .095 BDL 1.7 5.5 0.67 0.80 12.0 12 1.3 1.1 39.0 19 2.2 1.9 53.0 BDL BDL BDL BDL 0.56 BDL BDL BDL BDL BDL BDL BDL 0.38 .027 BDL BDL 0.73 BDL BDL 0.62 0.11 .021 BDL 0.13 5.0 BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL <td>COMP GRAB GRAB GRAB GRAB GRAB GRAB BDL .089 BDL BDL BDL BDL 1.6 .095 BDL 1.7 .071 5.5 0.67 0.80 12.0 0.21 12 1.3 1.1 39.0 0.70 19 2.2 1.9 53.0 0.98 BDL BDL BDL BDL BDL 0.51 .023 .079 BDL 1.2 0.56 BDL BDL BDL 0.35 0.38 .027 BDL BDL 0.65 0.73 BDL BDL 0.13 BDL 0.11 .021 BDL 0.13 BDL BDL BDL 2.4 7.3</td>	COMP GRAB GRAB GRAB GRAB GRAB GRAB BDL .089 BDL BDL BDL BDL 1.6 .095 BDL 1.7 .071 5.5 0.67 0.80 12.0 0.21 12 1.3 1.1 39.0 0.70 19 2.2 1.9 53.0 0.98 BDL BDL BDL BDL BDL 0.51 .023 .079 BDL 1.2 0.56 BDL BDL BDL 0.35 0.38 .027 BDL BDL 0.65 0.73 BDL BDL 0.13 BDL 0.11 .021 BDL 0.13 BDL BDL BDL 2.4 7.3		

TABLE 1 SOIL SAMPLES - LABORATORY RESULTS (expressed in ppm)

Laboratory: Great Lakes Analytical

BDL - below detection limit BTEX analyses method:

Shading denotes concentrations above LUST Standards SW-846, 8020 (modified) and 8310

